

SEQUENCE LISTING

<110> Moyer, James W.
Parks, Elizabeth

<120> IDENTIFICATION OF POINSETTIA CULTIVARS

<130> 5051.445

<150> US 60/220,854

<151> 2000-07-26

<160> 54

<170> PatentIn version 3.1

<210> 1

<211> 372

<212> DNA

<213> Euphorbia pulcherrima

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<221> misc_feature

<222> (24)..(24)

<223> "n" represents any nucleotide.

<220>

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<222> (195)..(195)

<223> "n" represents any nucleotide.

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ataacttctg gcagccatgt actcagcttc agctgtactt agagccatag aagtttattt 120
 cttgttgtag catgtgtcta gacaattacc aaggaaatga catcctctag tgggtgtttt 180
 cctttctaac ttgtntcttc cataattagc atttgtgtat gccctcagag tgaaatttcc 240
 atttcttgga taccataaac ctgcatcaat agttcctagc aaataccata acaacagcta 300
 agtgagattc tctgggggta gcttgatatc taccataata acatacaaca tattgaattt 360
 caggcctact ag 372

<210> 2
 <211> 198
 <212> DNA
 <213> Euphorbia pulcherrima

<220>
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 <222> (35)..(35)
 <223> "n" represents any nucleotide.

<220>
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 <222> (45)..(45)
 <223> "n" represents any nucleotide.

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 <222> (48)..(48)
 <223> "n" represents any nucleotide.

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 <221> misc_feature
 <222> (154)..(154)
 <223> "n" represents any nucleotide.

<220>

<221> misc_feature
 <222> (160)..(160)
 <223> "n" represents any nucleotide.

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 gttagaaaag caaatttcag tgcaggggtg ggatntggtg ccagntanta ttgcaaattgt 60
 tagagctttg ttgcaggatt tgactgagag gaattgtgtc atggagagaa gttcgagtgc 120
 gagcccgatt gtgtttagg agaagaaatt gganagaagn cgttgggggc aagtatggag 180
 ttgagaatcc cacatcta 198

<210> 3
 <211> 182
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 3
 agttagaaaa gcaaatttca gtgcagggta tactattgca aatgtagag ctttgttgca 60
 ggatttgaca gagaggaatt gtatcatgga gagaagttcg agtgcgagcc cgattgtgtt 120
 gtaggagaag aaattggaag aagacgttgg gggcaagtgt ggagttgaga atcccacatg 180
 ta 182

<210> 4
 <211> 161
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 4
 tgcttccaag gtgtttctcc tttgataga gaaattttac caactatgga aaactgacat 60
 gatttcagcc tctcttcata aagattttga ggaatctgaa ttgctttgta tctcccactt 120
 gcgtcaatga tttgtgagtt cagggttggg gcagatatct a 161

<210> 5
 <211> 103
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 5
cgacgatggc aatgatgaca attcttgcct ggaaccagaa atgataattg atactcccta 60
tatagggaga atgttgaaaa ttagattttg aagttgttat tta 103

<210> 6
<211> 371
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (81)..(81)
<223> "n" represents any nucleotide.

<400> 6
ttccatggta cctttgttca gtaaaaaaat tacacaatta gctagttcga agaatacacg 60
tgcaaactaa ttttttaggtc ntgggtgcaa attattttgc aaaaataatt accaagctat 120
ctcttccaag tatatatttc tctagcatct cccatgcata agaactgttg gagtgtatat 180
gtatgagaaa gaaatgtata ataccaacct cttccatttg ctttgttcta ctgctttcca 240
agtgtcggg ttaggtgtat tacaaggccc tatagtagcc tgcagtcatt catggaacta 300
acaaactcag tatctaagcc cggggtgaaa agatactcac aatctcacat ttccgatcaa 360
ctccccatat c 371

<210> 7
<211> 247
<212> DNA
<213> Euphorbia pulcherrima

<220>
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<222> (22)..(22)
<223> "n" represents any nucleotide.

<220>

<221> misc_feature
 <222> (151)..(151)
 <223> "n" represents any nucleotide.

<220>
 <221> misc_feature
 <222> (175)..(175)
 <223> "n" represents any nucleotide.

<400> 7
 gaaaatatgt gctgaattta tncgttaaag tagtttcgat gcaaccactg tttagcttat 60
 acttaacttt ctgttcatca ccatcaatcc tcagcaaaac accctcattc ttcatactta 120
 gatgttggtc gaagaaatat ggggtaacag ngatttcttt gccctggacc ttggnttgaa 180
 gagcatcaaa cttggcgtga acactaagaa tctcatagaa ctcccttgac taagtcagga 240
 tatgtgg 247

<210> 8
 <211> 221
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 8
 agctcttcat tgcttcatca taggttatcg gtttatcatc ctctatgata tatagttccc 60
 tacatcagtg atgatgcaac catatctttt aggaccgtta tgaatatgac ctgatctttg 120
 cattgattgt gtttcaacag gttgttcatt ggatcaaacc ttcttggtga tctagaatgg 180
 ggtcaactag ttgattatct gttttatatt ctggaagctc c 221

<210> 9
 <211> 176
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 9
 tgcattccat ggttcaaaag ccgagtttct tcgcctcatc gagtttttat tcgcaaagtg 60
 gatggtttag acagggtttt gaccagcagc ctggagttgg gagattgttg gcctcatcag 120

aaattagttt tcatggagtt gggagatttg aaggtaattc aaggaagttt tctgca 176

<210> 10

<211> 73

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (54)..(54)

<223> "n" represents any nucleotide.

<400> 10
ccggataaaa gcactacaat caggtagatg actcgggtcg gatacgtagt gcantactga 60

gtcagactaa cga 73

<210> 11

<211> 75

<212> DNA

<213> Euphorbia pulcherrima

<400> 11
gtttatcttc aagtctaaca agaccagtt tttcagattc ctttctcaa tttctcgttc 60

agttataaaa gctaa 75

<210> 12

<211> 64

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (52)..(52)

<223> "n" represents any nucleotide.

<400> 12
 gaatgcctat tacatcggaa aacaaaaaaa caaagataaa tgctagagac antataatca 60
 tccc 64

<210> 13
 <211> 59
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 13
 gtctttctag ttttactgat ttctgttgta cttctattag atatatattg tatatctga 59

<210> 14
 <211> 49
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 14
 ttgaaggcag gaaaatatat cctattctga aaggatttac aatctgcgg 49

<210> 15
 <211> 216
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 15
 acttctctcc ccacacaatg tgtagtgcag ctagtgccga tgacagtgag aagaccagaa 60
 tcacatagag agcgatcgta tgaaaaggta ttgaattagg gatttgatga aagggttaaga 120
 tagaaaggga gttggtgtta gcgagttgtt tctcctgccc tcacaataat acttttatca 180
 atttttcagt aacaatttgt ccatgtactt ttggac 216

<210> 16
 <211> 120
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 16

tgtgctcttg ttccttggat caaataagga aacatggcct taggtaagtg tagtcatatc 60
 tttttggctc atgaacccta agtcccctat agtttgaaca aggttgtgta ggattgggtat 120

<210> 17

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 17
 agaaccta atgaaccta ctaagtagaa tcttataaaa gaaatgaaaa ctttgagaga tatttttagt 60
 atgaaaatag aaaataaatc ataaagtaaa caagcacaaa taccagctgg atttttctaa 120

<210> 18

<211> 118

<212> DNA

<213> Euphorbia pulcherrima

<400> 18
 gaatgtgctc ttggctcctg ggatctaaat aaggaaacat ggccttggtg tagtaataat 60
 actttttgct cataaccctg agtccgctat ggctgaacaa ggttgtgcag gatgggtat 118

<210> 19

<211> 117

<212> DNA

<213> Euphorbia pulcherrima

<400> 19
 agaacctaaa tctaggtagc cttcttataa aagaaaatga aaactttgag agatattttt 60
 agtatgaaaa tagaaaataa aatcataagt aacagcacaa ttaccagctg gactctc 117

<210> 20

<211> 109

<212> DNA

<213> Euphorbia pulcherrima

<400> 20
 gaatgtgctc ttgggtcctt agggatctaa ataaggaaac atggcttggt atagtaataa 60

tacttttggc tcatgaactc tagtcctatg ctacaggtgt cagatgata 109

<210> 21

<211> 114

<212> DNA

<213> Euphorbia pulcherrima

<400> 21
gatgtgctct tggtcctgga tctaataaaa catgccttgt attagtaaaa ataccttttt 60

ggctatgaac cctgagtgccc ctatggcctg aaaaagggtg tgcaggattg gtat 114

<210> 22

<211> 119

<212> DNA

<213> Euphorbia pulcherrima

<400> 22
tttctctctg attacattac tatgtaaaaga cctaaatgaa tgagttttct tcgcaaggac 60

caaatcgaga tattttaact aattttttct cttgaaatat tttatctaga tgaaatttt 119

<210> 23

<211> 116

<212> DNA

<213> Euphorbia pulcherrima

<400> 23
gctttcttac attcctgggg acaagaatgc tttgaagggg aggggtattgt caggaggaag 60

taatataatc tgattgttat ttagtttatt tgctttgggt aaataagttg actatg 116

<210> 24

<211> 336

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (333)..(333)

<223> "n" represents any nucleotide.

<400> 24

ctccaaggct tcattgatgc agattatggt agagatactc ttgagagaaa gagtacatca	60
gaggttgtca cttctaggga gattgcttag tatcttggtc cagcaagaag caaacttcag	120
ttgctttatc tactatagaa gtagaatata tggcagctag aagttgtgta gctcaacttc	180
tttgatcaa gcaacaacta gaagattatg gagtctaata cgggtgtgtg gatgtaatgt	240
gtgattacaa aagtgccatt gatgtgtcaa acaatccagt attccatagg aggataaaac	300
atgtcaacat aaggcatcgt gaagagaaga aanttgt	336

<210> 25

<211> 232

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (6)..(6)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (26)..(26)

<223> "n" represents any nucleotide.

<400> 25

cagganatga actttgattt caccancata gattttgaat ctcagtcttc aggaagcttt	60
ttcagttctt gagcacatgt tctgaaaaaa tatcaaatct ctacattggt ttcaagggtca	120
acaaatgacc ggtaaggctc gggttggtct agaccgggca catcaatttg gggacaaatt	180
tgaatccatt ttatcctact tttttgtatt ggcagtaagg attaggattc tc	232

<210> 26

<211> 167

<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (73)..(73)
<223> "n" represents any nucleotide.

<400> 26
ctctcctata ttttaggggt tagctttgta tcataagctc ttctgctctc tacccttcta 60
aaccacccca tgntatata ggtattcatc actcgaatat ttatgtaagt catccatctc 120
attcaggggt tgattcgggc tgatcatctt ccggtttctc tagctaa 167

<210> 27
<211> 102
<212> DNA
<213> Euphorbia pulcherrima

<400> 27
tttgcaggag tactgtccat gtaaatttga gacttcgcac tatcattgca agcaatagca 60
atagaagaaa catcattttg cagcttacta atacaccac tc 102

<210> 28
<211> 308
<212> DNA
<213> Euphorbia pulcherrima

<400> 28
gcctagaaag gttttctagt caacatactc acgtagctca cttttaccct aacttttgcc 60
tagaacgtcc tttttgaatt ttcagtctag cgggctatct tgcaccctaa cttttgcctg 120
aatggtttgt agaataccaa atagcgggat atgccctaat ttgacctaa cagtagagga 180
ccactcatcg ggtgatttat ttgattatt tttgtgtgc cgcttttctg gatttgattc 240
ttttagatta gatatgataa tgcttcaatc gatcctgatt gatagggttt gtgaattggt 300
acgcagcc 308

<210> 29

<211> 137

<212> DNA

<213> Euphorbia pulcherrima

<400> 29

aagaccaagt caggagcata cctaagaaga aggaatagct gacctagccg atcctctggt 60

acctcaacta tggatggacc cccgtgtacc tctcagtcct cctcctcgtc atcatatcat 120

catcctcggt gttgctc 137

<210> 30

<211> 135

<212> DNA

<213> Euphorbia pulcherrima

<400> 30

ttatcataat caatgtcaat aaaaaaaaa aggcaataaa taaaagataa ataattctga 60

tagactaaaa agagcaaggc tgatgcaaaa gtcagaataa gtctgctgga ttgaaatcga 120

aaggatatcta ggcaa 135

<210> 31

<211> 139

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (128)..(128)

<223> "n" represents any nucleotide.

<400> 31

ggccctttct cagccatgat atctaaatat acgagtcttg tgtgtacgcc attgcatctc 60

tagcccttct ccagggggcg ttctcatctt gtccatgcca taatacaatt tcatatatctc 120

tctctccnag taagcaacc 139

<210> 32

<211> 281

<212> DNA

<213> *Euphorbia pulcherrima*

<400> 32

aacctcatca atcaggatca gatgaagcat tatcatatct aatcgaaaag aatcaaattct 60

agaaaagcgg cacataaaaag tatataaaaa aatcacccga cgagtagtct tctactgctc 120

aggcaaaaat tagggtgtat cctgttggtt ggtaattctgt aaaccattca ggaaaatggt 180

agggtgcaag aataacccgc tagactgaaa atctgaaaag gatggtctag gcaaaattta 240

gggtaaaagt gagctacaat agtgtgttgg cttgaaaact t 281

<210> 33

<211> 211

<212> DNA

<213> *Euphorbia pulcherrima*

<400> 33

ggattactga taatgttgac aatggcttga gggcagtatc ttgcaactcc ctcgcaaagg 60

gttttacta ttccggcatt tatgttgaat aaatcgctcc tagtcattcc tggcttccta 120

ggaacccag caggaattat cacaagatcc attcctgtaa gagcatcgtc tagttgctgc 180

tggcccaaga aaccacgcac ctgaaaatca t 211

<210> 34

<211> 320

<212> DNA

<213> *Euphorbia pulcherrima*

<220>

<221> misc_feature

<222> (127)..(127)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (136)..(136)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (142)..(142)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (148)..(148)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (192)..(192)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (213)..(213)

<223> "n" represents any nucleotide.

<400> 34
ttagctcgat ctccatgatc acaaaactag ttatcacacc caccatttac attgttgta 60
tgcaacaaag tcaactgtac tagagattct cgtcccgaag tgccctcaag atgggatcgt 120
tttcttnatc tatgtngtag tngtcgtngt cgtcatcatc caggatcatcc agtattgatt 180
ggttgatcct tntgcgagac tttcttctat gcnttcttgg gctccaaacg aggttcagct 240
tgctgtactc ccatatcacc cactitgaac ctgcagagta gcataacgaa caagaaaatg 300
aatgatagta gaataaattt 320

<210> 35

<211> 272

<212> DNA

<213> Euphorbia pulcherrima

<400> 35
tatgggtatTT cttttctggg tgtaattgat ttgcaacttg agtcaaacag gttctatcaa 60
ctgatttttc tagttttcgg cgcttactgc aaccctggaa aggatgttca ctgttttttc 120
cttcgttttc caggtcagca atacgacgag taatttcctc ggtatcatat atggattcca 180
gcttgtaatc ttttatgcat tgaaatacgg ctttacgagc agctagtctt ctctccctgg 240
ccttctcctg catatgaaat caggagttat at 272

<210> 36

<211> 195

<212> DNA

<213> Euphorbia pulcherrima

<400> 36
cagattatTT gactataatt agtttggtt ctatgggtgc tgcactaaat gatcatcgaa 60
acagccaatc ggttcattggg tttgtcatga gaaaaggctg gttcatggaa tatattgtca 120
ttgggaatgc aactgtggac atgtatgcta aaattggagc cacagatacg gcccgtcag 180
tatttgaaag cctac 195

<210> 37

<211> 171

<212> DNA

<213> Euphorbia pulcherrima

<400> 37
tttcaaaagt tgaaaagaat atgtcataag ccttacacta gtaaattggaa ctatagtccg 60
tgccccctac atcaaaagat caatgataaa gaagaacaaa acactccaaa gagcaattct 120
tctcaaaagg tgctgagctg gaatcccatt ctaatcgtgg catccctccc c 171

<210> 38

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 38

aaatgtagca aagaacatta tcaacaaatg ccccaaaaaa caagtgaaaa tataatcacc 60
actgaagcaa aaaaagtaag taaaaacaga agaaaagaca actaaatgta gattattaca 120

<210> 39

<211> 88

<212> DNA

<213> Euphorbia pulcherrima

<400> 39
aacttttttc tttgtataat tatctcatat tttttgtgaa tattcttggt tgaatagaac 60
acactttata tatgaaaccc actttatc 88

<210> 40

<211> 67

<212> DNA

<213> Euphorbia pulcherrima

<400> 40
atccttttca acaaggacat cgatgaaaag tgatttataa atgtggatat gtaaacttag 60
cttagtg 67

<210> 41

<211> 223

<212> DNA

<213> Euphorbia pulcherrima

<400> 41
ccaggagtaa aatagccatt atgaaagtac cattgaacca tattgctaac atccttgccg 60
accaggtccc aaaagtgttg ataaaaaata ccagtaaagc cgtcaggacc cagcgacta 120
tcacccttca tcgagaagac tctatttcga atttcatcaa aagaaggctt cctaataaac 180
tcatcattgt cgctgcccgt cacccgatta ggaactgtct gcc 223

<210> 42

<211> 165

<212> DNA

<213> Euphorbia pulcherrima

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<400> 42
ctaactggat gcaagaaatg agcaggcacc gatgaactag caaataaagg tggcagcatc 60
agaaccacca tcgtaaccac cgttagaatc gccgcccgat gaaagcccct gcattctttt 120
caaatacaat ctatacttct tgcacatga accctacgtt ttctc 165

<210> 43
<211> 106
<212> DNA
<213> Euphorbia pulcherrima

<400> 43
actaatccca tattagatgg gaattggatc gcttgacatg agagatttca aatgaacttt 60
atttccatcc ctagagccga gttcataaaa tctctcctaa acccat 106

<210> 44
<211> 67
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (51)..(51)
<223> "n" represents any nucleotide.

<400> 44
tgcaccattt gcattttcac acaaccattt ataataatat tcatcccata ngtttgaggg 60
ttttcgg 67

<210> 45
<211> 50
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature

<222> (23)..(23)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (47)..(47)

<223> "n" represents any nucleotide.

<400> 45

gttcgtatat gtaatatatc ctngtaaagt ttaattacag aaacatngca

50

<210> 46

<211> 64

<212> DNA

<213> Euphorbia pulcherrima

<400> 46

cgtaccagcg gagacgatgg cctgaaattt gagcaccttc cgttgcatca gagtttctca

60

gtta

64

<210> 47

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer.

<400> 47

gactgcgtac caattcaag

19

<210> 48

<211> 19

<212> DNA

<213> Artificial Sequence

00402-049

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 48
gactgcgtac caattcaca

<210> 49
<211> 19
<212> DNA
<213> Artificial Sequence

19

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 49
gactgcgtac caattcagc

<210> 50
<211> 19
<212> DNA
<213> Artificial Sequence

19

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 50
gatgagtcct gagtaacac

<210> 51
<211> 19
<212> DNA
<213> Artificial Sequence

19

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 51
gatgagtcct gagtaacta

<210> 52
<211> 19

19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 52

gatgagtcct gagtaactc

19

<210> 53

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 53

gatgagtcct gagtaactg

19

<210> 54

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 54

gatgagtcct gagtaactt

19